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PHOTO INTELLIGENCE MEMORANDUM

NEW SOVIET ARTILLERY WEAPON

GP/I-95

(Project 71.186)

17 May 1955

Declass Review by NIMA / DoD

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Approved For Release 2001/08/13 : CIA-RDP78T05694A000200250001-9

17 May 1955

NEW SOVIET ARTILLERY WEAPON

25X1A This memorandum reports completion of a request from Chief, Applied Sciences Division, OSI, dated 16 May 1955 for pertinent dimensions of a new large caliber, field artillery weapon imaged in ground photographs of the 1955 Moscow May Day Parade. In order to expedite the request, a copy was hand-carried by [REDACTED] OSI/ASD/G, who stated that the following specific dimensions were primarily requested:

- a. diameter of muzzle (immediately behind the muzzle brake)
- b. length of tube (including muzzle brake)
- c. length of breech ring
- d. length of muzzle brake
- e. diameter of tube immediately forward of breech.

The requester stated that the prime mover was also new, so that the dimensions of the wheels were not known. Soldiers seated in the prime mover imaged in the photography and the following dimensions were calculated based on the tenuous assumption that 8 inches is the distance

25X1A [REDACTED] This project was completed on a "crash" basis. No time was available for research. The dimensions were
25X1A supplied to [REDACTED] (see following page) with a note that if the wheel size of the prime mover could be ascertained, a more accurate estimate
25X1A of the size of the weapon could be determined. [REDACTED] delivered a
25X1A copy of our memorandum to [REDACTED] OCI. [REDACTED] ORR/I/WA,

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also requested and received a copy from us.

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[REDACTED] informed us that the prime mover was a standard model and the rim diameter of the wheel is 82.98 cm. Using this measurement to determine scale, we re-checked our original measurements and found

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them to be very accurate. [REDACTED] were contacted by phone and informed that as a result of re-checking our measurements on the basis of the known wheel diameter our original measurements were accurate plus or minus 2 or 3 percent.

Photo References:

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[REDACTED] dated 1 May 1955

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Soviet Gun/Howitzer Observed at
1955 May Day Parade

Breech Ring Length - 20.6"

Breech Gate - 10.3"

Breech Ring Depth - 43.4"

Tube Diameter at Base - 22.6"

Tube at Muzzle Brake Collar (Diameter) - 12.3"

Diameter Muzzle Brake at Collar - 14"

Diameter Muzzle Brake at Muzzle - 16.5"

Tube from Breech Ring to Muzzle Brake Collar - 25 ft.

Length of Muzzle Brake Collar - 8.5"

Overall Muzzle Brake Length - 2' 11"

Overall Trail Spade to Muzzle - 40'

Overall Trail Spade to Pintel - 10' 8"

Wheel Diameter - 4' 8"

Axle to Axle Length - 24' 8"

Note: The above size estimates, probably accurate to $\pm 10\%$, are the result of photogrammetric measurements on photo number 1-26, [REDACTED] dated 1 May 1955. The measurements are based on the assumption that 8" is the [REDACTED] If the size of the wheels of the prime mover could be ascertained, a more accurate estimate of the size of this weapon could be determined.

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PHOTO INTELLIGENCE MEMORANDUM

MATSU SITUATION STUDY

(Supplement #3 to GP/1-76, dated 1 April 1955)

GP/1-93

(Project 71.174)

19 May 1955

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PHOTO INTELLIGENCE MEMORANDUM

MATSU SITUATION STUDY

LUNG-TIEN A/F

(Supplement #3 to GP/I-76, dated 1 April 1955)

This memorandum is a supplement to GP/I-76, which was submitted in reply to a request by OCI for information on military installations in the Matsu Area as determined by a study of the latest available photography.

25X1D This supplement reports the results of D/GP study of photography of [REDACTED] of the airfield being constructed in the Lung-Tien Area.

25X1D This airfield was first seen by D/GP on photography dated [REDACTED]

25X1D [REDACTED] It appears to be in the early stages of construction. Apparently no airfield existed on this site previously.

The field is located about 2.75 miles south of the town of Lung-Tien.
(25°37'N/119°27'E)

The field can probably be reached by road (and one ferry crossing at Ma-tou-wei) by traveling south about 40 miles from Foochow. Neither Lung-Tien nor the airfield are on the main N-S road, but are probably accessible by secondary roads. The A/F is located approx. 10 miles east of the main highway. Photographic cover of these secondary access roads

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25X1D is not available, so their actual existence or condition cannot be verified. Construction work seems to be [REDACTED] in the stage of preliminary grading and drainage. Only the barest outline and shape of the field are visible. It will be a single strip NE-SW, and a very rough a [REDACTED] of its intended length could put the field in the 6-7000' category.

25X1D Much evidence of intensive work on the field is apparent. There are many barracks type buildings visible. They are apparently newly built, presumably to house the construction workers. At [REDACTED] there were about 135 such buildings, each measuring about 20 x 80 feet in size.

Other allied construction work is also apparent on the photography. There is a drainage canal of considerable size under construction to the north and east of the field. Also, several new roads in the general area are either constructed or in the process. There seems to be a general improvement of the road leading north from the field in the direction of Lung-Tien. There are two beach access roads visible, by means of which construction materials are being transported to the field proper, approximately one mile to the west. It is possible that the material is either being brought in by boat, or being obtained from the beach area, or both.

25X1D Anti-aircraft defenses in the area are particularly well developed, especially considering the apparent early stage of construction of the airfield. On [REDACTED] there are 64 anti-aircraft weapons distributed in a symmetrical pattern about the strip. Of these 16 are medium AA and 48 are light AA. Also apparent are some associated AAMG emplacements.

Very rough estimates of completion date, by using only the single

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photographic coverage, with comparison generally to the Lu-Chiao field, would indicate [REDACTED]

See Enclosure #1 in mosaic of photography of [REDACTED]

Photography of [REDACTED] reveals continued expansion of construction activity in the airfield and adjacent area.

Specifically, more extensive grading and leveling operations on the runway are noted. Piles of material, presumably rocks, gravel, or sand are now located alongside the strip.

Aircraft revetments are in the process of construction on the north side of the runway. There are indications of 14 in various stages of completion. Also, a taxiway, on the north side of the strip, and parallel to it, is being started.

Here buildings are observed in the area, particularly along the beach in the vicinity of the beach exits. In the largest group are approx. 14 new buildings or sheds, each about 15 x 25 feet.

The main drainage canal on the north east end of the field is not yet completed, though work is progressing.

No additional defenses are found on the more recent photography.

See Enclosure #2 for mosaic of photography of [REDACTED]

GP/I -94
May 1955

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PHOTO INTELLIGENCE MEMORANDUM
SOUTHEAST CHINA SUPPLY ROUTE V

This memorandum reports the publication and distribution of a large acetate and ozalid overlay showing new road construction in Southeast China.

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